

2008 CX-7

Engine & Mechanical



S Standard **P** Package Option **□** Stand-Alone Option **R** Dealer Installed Accessory **X** Not Available

2008 CX-7

Mechanical Features



2008 CX-7

Sport

Touring

Grand Touring

ENGINE

Engine type	2.3L Direct Injection Spark Ignition (DISI) Turbocharged 16-valve 4-cylinder Inline
Horsepower, SAE net	244 @ 5000 rpm
Torque, SAE net	258 @ 2500 rpm
Redline	6700 rpm
Displacement (cubic inches/cc)	137.9/2260
Bore x Stroke (inches/mm)	3.44 x 3.70/87.5 x 94.0
Compression ratio	9.5:1
Fuel system	Electronically Controlled Direct Injection
Recommended fuel	Premium (91 - 93 Octane)
Valvetrain	Dual Overhead Cam, 4 valves per cylinder, camshaft chain, variable valve timing
Engine block	Aluminum alloy
Cylinder heads	Aluminum alloy
Emission control	3-Way Catalytic Converter
Ignition system	Full Transistor Breakerless Ignition
Alternator	12V - 110 amp
Battery	55D23L

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Starter

12V:1.4kw

FUEL ECONOMY

EPA Mileage (City/Highway)*

FWD Automatic Transmission

17 / 23

AWD Automatic Transmission

16 / 22

* These estimates reflect new EPA methods beginning with 2008 models

TRANSMISSION & DRIVE RATIOS

Type	FWD or Active Torque Split All Wheel Drive
Transmission:	6-Speed electronically controlled sport AT
Clutch type:	Torque converter with electronic lock-up
Ratios:	
1st	4.148
2nd	2.370
3rd	1.555
4th	1.154
5th	0.859
6th	0.685
Reverse	3.393
Final Drive	3.749
Coefficient of drag (cd)	0.34
Top speed (mph/kph)	116.8/188
EPA Curb Weight (lbs/kg)	
FWD	3710/1683
AWD	3929/1782

CHASSIS

Body type	5 passenger, SUV, monocoque unibody with triple H construction
Front suspension	independent MacPherson Strut type coil spring and stabilizer bar
Rear suspension	Independent Multi-link type coil spring and stabilizer bar
Shock absorbers	Twin tube, telescopic-type, double acting
Steering type	Power rack-and-pinion with variable assist
Power assist	Engine-rpm sensitive; variable hydraulic power assist steering
Steering wheel turns Lock-to-Lock	2.9 revolutions
Overall steering ratio	15.8:1

Turning Circle, Curb-to-Curb (feet/m)

37.4/11.4

BRAKES

Braking system	Power assist anti-lock braking system with Electronic Breakforce Distribution (EBD) and Brake Assist
Anti-Lock Braking System (ABS)	4-wheel, 4-sensor, 4-channel +Electronic Brake force Distribution (EBD) and Brake Assist
Front brakes (inches/mm)	Dual Piston Ventilated Disc (11.65/296) diameter, 1.1in/28mm thick
Rear brakes (inches/mm)	Single Piston Ventilated Disc (11.9/302) diameter, 0.7in/18mm thick
Parking brake	Mechanical (foot type)

WHEELS & TIRES

Wheels	18 x 7.5J aluminum alloy wheel
Tires	P235/60 R18 H-rated all-season
Tire inflation pressures (F/R)	32 psi/32 psi
Temporary spare tire	T155/90 D18

CAPACITIES

Roof Rack Payload (lbs.)	100
Towing Capacity (lbs.)	2,000

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Exterior

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Sport

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EXTERIOR FEATURES

Body-color door handles	S	S	X
Chrome door handles	X	X	S
Body-color bumpers	S	S	S
Roof spoiler	S	S	S
Halogen headlamps	S	S	X
Xenon auto on/off headlights	X	X	S
Body-color folding side view mirrors	S	S	S
Heated, folding side view mirrors	X	X	S
Side view mirrors – driver & passenger, electric remote control	S	S	S
Windshield wipers – intermittent, time adjustable	P	P	P
Rear window wiper – intermittent and includes washer	P	P	P
Fog lamps	†	†	S
Mudguards, front and rear	S	S	S
Moonroof wind deflector	S	S	S
Rear bumper step plate	S	S	S

EXTERIOR DIMENSIONS

Wheelbase (inches/mm)	108.3 / 2750
Track, front (inches/mm)	63.7 / 1617
Track, rear (inches/mm)	63.5 / 1612
Length w/o license plate holder	184.0 / 4675
Width (inches/mm)	73.7 / 1872
Height w/o roof rails (inches/mm)	64.8 / 1645
Minimum ground clearance, unladen (inches/mm)	8.1 / 206

WHEELS & TIRES

18-inch aluminum alloy wheels	S	S	S
P235/60 R18 H-rated all-season tires	S	S	S

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‡ Fog Lamps, require the purchase of the 8-way Power Seat and Lumbar Adjustment.

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Interior Features

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COMFORT & CONVENIENCE

Power sliding-glass moonroof with interior sunshade and one-touch open/close



Power windows with one-touch auto open/close front windows



Cloth-trimmed seat upholstery



Touring leather-trimmed seat upholstery



Grand Touring leather seat upholstery with sport seat stripe



Floor mats – carpeted front & rear



Floor mats – all weather front & rear



Cloth headliner – color-keyed – sand



Interior door handles – silver



Center instrument panel – dark gray



Steering wheel with audio control



Steering wheel with audio control – leather wrapped



Steering wheel with audio control – leather wrapped with piano black accents



Tilt steering wheel



Heater/defroster with rear heater ducts



CFC-free air conditioning with cabin filter – manual controlled



CFC-free air conditioning with cabin filter – automatic controlled



Rear window defogger



Power door locks with 2-stage unlocking



Passenger assist grip



Storage pockets – front doors with bottle holders



Retractable cargo cover



Cup holders – front



Coin box



Dual covered visor vanity mirror with extension



Cruise control with steering wheel mounted controls



Driver-side footrest



Cargo net



Cargo tray



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Interior Features

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	Sport	Touring	Grand Touring
Glove compartment	S	S	S
Locking center storage console	×	S	S
Remote engine start	□	□	□
Rear cup holder (2)	S	S	S
12V power outlet (2)	S	S	S
Shift knob & leather wrapped	×	S	S
Indirect blue illumination	×	×	S
Privacy-tint rear glass	S	S	S
Rear seat center armrest	S	S	S

SEATING & TRIM

5-passenger seating capacity	S	S	S
60/40 split one-touch fold-down rear seatback with adjustable headrests on outboard seating positions	S	S	S
Reclining front bucket seats with adjustable headrests	S	S	S
6-way manual adjustable driver's seat	S	×	×
8-way power adjustable driver's seat	□	S	S
Adjustable driver's seat lumbar support	□	S	S
Heated front seats	×	S	S
Carpeted interior – black	S	S	S
Front seatback map pocket – driver-side	S	S	S
Interior trim package	□	□	□

AUDIO SYSTEM

AM/FM/CD audio system (modular) with Automatic Level Control (ALC) and digital clock	S	S	S
AM/FM & In-dash 6-disc CD changer	□	□	□
SIRIUS satellite radio-ready audio head-unit	S	S	S
SIRIUS satellite radio accessory receiver kit ‡	□	□	□
4-speaker sound system	S	S	S
9-speaker, Bose® Centerpoint® surround system 240 watt with AudioPilot®	P	P	P
DVD entertainment system	□	□	□
DVD navigation system with voice command & touch screen	P	P	P
Antenna – Roof-mounted	S	S	S

INSTRUMENTATION

2008 CX-7



Interior Features

2008 CX-7	Sport	Touring	Grand Touring
Tachometer	S	S	S
Speedometer	S	S	S
Resettable trip odometers (2)	S	S	S
Coolant temperature gauge	S	S	S
Fuel level gauge	S	S	S
Ambient temperature	×	×	S
Navigation system with rear view camera	P	P	P
Electroluminescent gauges, indirect blue lighting	×	×	S
Compass/EC mirror	□	□	□
Compass/Homelink mirror	□	□	□

INTERIOR DIMENSIONS

Head room w/o moonroof, front (inches/mm)	39.7 / 1009
Head room w/o moonroof, rear (inches/mm)	39.3 / 998
Head room w/ moonroof, front (inches/mm)	38.2 / 970
Head room w/ moonroof, rear (inches/mm)	38.6 / 980
Leg room, front (inches/mm)	41.7 / 1059
Leg room, rear (inches/mm)	36.4 / 925
Rear knee clearance (inches/mm)	1.5 / 39
Shoulder room, front (inches/mm)	58.0 / 1472
Shoulder room, rear (inches/mm)	55.8 / 1417
Hip room, front (inches/mm)	54.8 / 1391
Hip room, rear (inches/mm)	53.0 / 1345

PASSENGER & CARGO VOLUMES

EPA passenger volume w/o moonroof (cubic feet)	101.7
EPA passenger volume w/ moonroof (cubic feet)	98.8
Cargo volume w/ rear seatback up (cubic feet)	29.9
Cargo volume w/ rear seatback folded (cubic feet)	58.6

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‡ SIRIUS satellite radio requires purchase of additional hardware and a monthly subscription.

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Safety & Security

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	Sport	Touring	Grand Touring
SAFETY & SECURITY			
Anti-lock Brake System (ABS) w/ Electronic Brakeforce Distribution (EBD) and Brake Assist	S	S	S
Dynamic Stability Control (DSC)	S	S	S
Traction Control System (TCS)	S	S	S
Tire Pressure Monitoring System (TPMS)	S	S	S
Side-impact door beams	S	S	S
Front & rear crumple zones	S	S	S
Advanced dual front air bags (SRS)	S	S	S
Front side-impact air bags and side air curtains (front and rear) with roll-over protection	S	S	S
3-point safety belts for all seating positions	S	S	S
Front safety-belt pretensioners with force limiters	S	S	S
Fold-away brake pedal assembly	S	S	S
LATCH rear seat child safety-seat lower anchors (2) & upper tethers (3)	S	S	S
Passenger power window lock-out feature – driver-controlled	S	S	S
Engine immobilizer anti-theft system	S	S	S
Anti-theft perimeter alarm	P	P	P
Illuminated keyless entry w/ panic button	S	S	S
Rearview camera	P	P	P
MAZDA Advanced Keyless Entry & Start System	P	P	P

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Options & Accessories

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Sport

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OPTION PACKAGES

Power Seat Option (PS1):

- 8-way power adjustable driver seat (recline, lift, tilt, slide) with adjustable lumbar support



Moonroof, Bose Audio, 6CD Changer Package (1MC):

- Power sliding glass moonroof with interior sunshade
- Bose® CENTERPOINT® Surround System with AudioPilot®
- 9 speakers
- In-dash 6-disc CD changer



Technology Package (1TE):

- Power sliding glass moonroof with interior sunshade
- Bose® CENTERPOINT® Surround System with AudioPilot®
- 9 speakers
- In-dash 6-disc CD changer
- Moonroof, Bose Audio, 6CD Changer Package
- DVD navigation system with voice command & touch screen
- MAZDA Advanced Keyless Entry & Start System
- Rearview camera
- Perimeter alarm



Note: Sport trim requires PS1